

Bedford-Manchester 40731



Bridge Preservation of I-293 and NH 101 bridges over Merrimack River

Introductions

- Jason Tremblay, PE
 - NHDOT Bureau of Bridge Design
 - Senior Project Engineer
- Joseph Johnson, PE, PTOE
 - Greenman-Pedersen, Inc.
 - Project Consultant

Bedford-Manchester 40731

A detailed map of the Bedford-Manchester area in New Hampshire. The map shows the Merrimack River flowing through the center, with the city of Manchester to the north and Bedford to the south. Major roads include Route 114 (NH Route 114) running north-south and Route 101 (NH Route 101) running east-west. A blue shield with the number 293 indicates the location of the Merrimack River. A black circle highlights a specific area in the Bedford-Manchester region, labeled with the number 40731. The map also shows various local streets, water bodies like Rutt Pond and Seabins Pond, and the location of the Goffstown, Manchester, Bedford, and Londonderry towns.

Bridge Preservation of I-293 and NH 101 bridges over Merrimack River

Project Purpose

- Bridge Maintenance and Preservation
 - Extend the useful life of the bridges
 - Replace bridge expansion joints
 - Replace pavement
 - Repair bridge piers
 - Patch deck



Bridge Preservation of I-293 and NH 101 bridges over Merrimack River

Project Purpose

- Replace Expansion Joints



Bridge Preservation of I-293 and NH 101 bridges over Merrimack River

Project Purpose

- Replace Pavement



Bridge Preservation of I-293 and NH 101 bridges over Merrimack River

Project Purpose

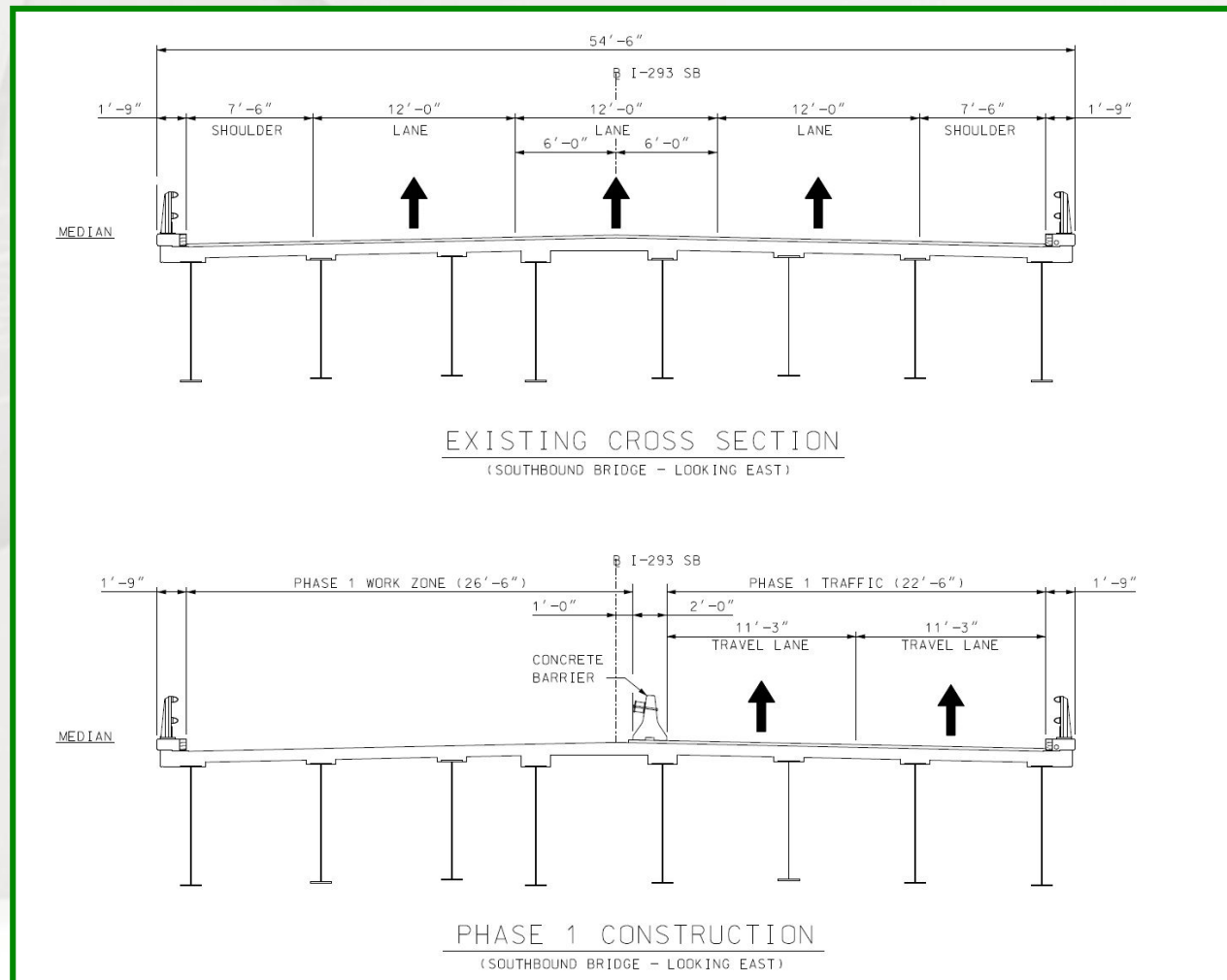
- Repair Piers



Bridge Preservation of I-293 and NH 101 bridges over Merrimack River

Bedford-Manchester 40731

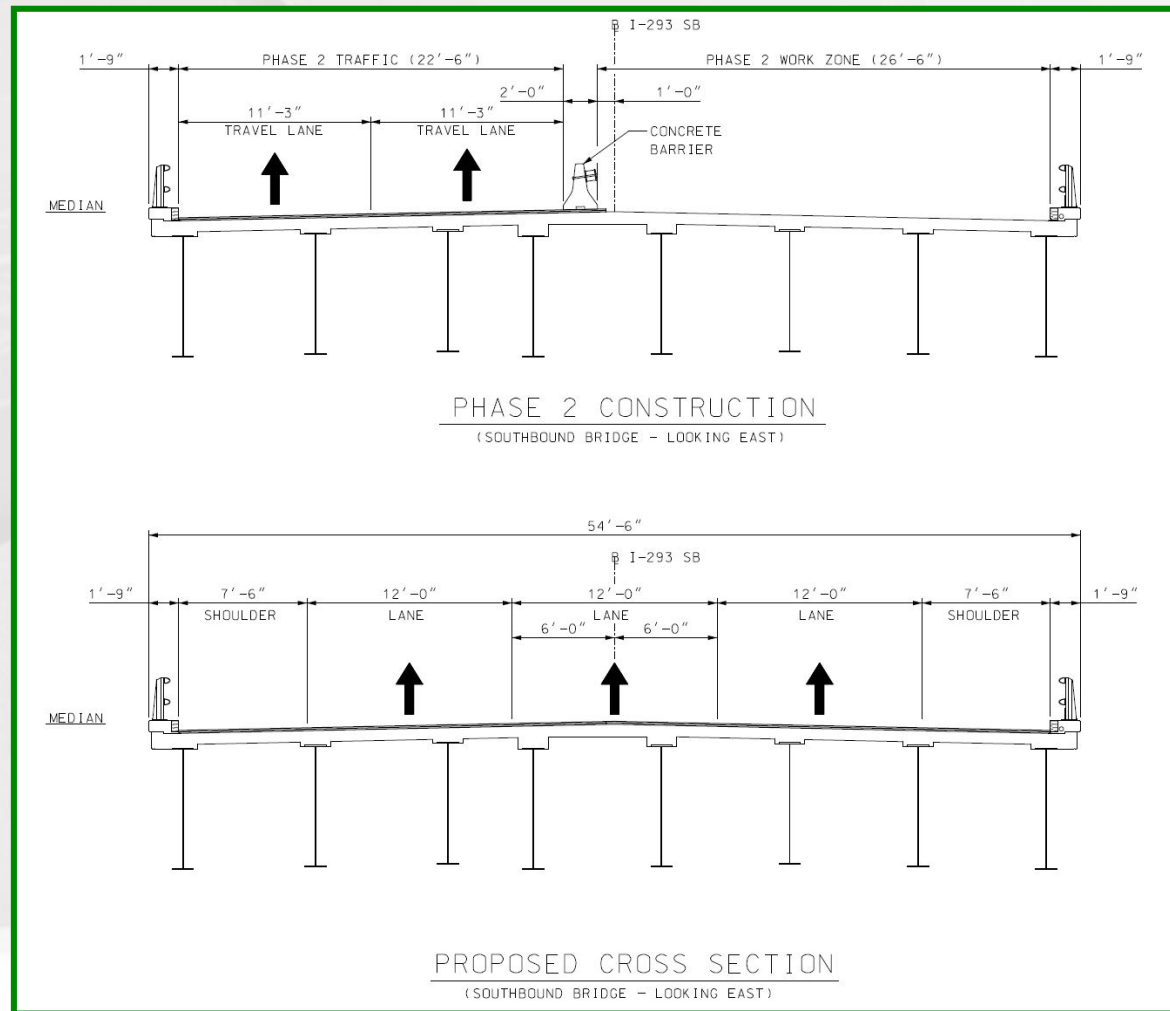
Bridge Cross Section



Bridge Preservation of I-293 and NH 101 bridges over Merrimack River

Bedford-Manchester 40731

Bridge Cross Section



Bridge Preservation of I-293 and NH 101 bridges over Merrimack River

Bedford-Manchester 40731

Phase 1 – Work Zone



Bridge Preservation of I-293 and NH 101 bridges over Merrimack River

Bedford-Manchester 40731

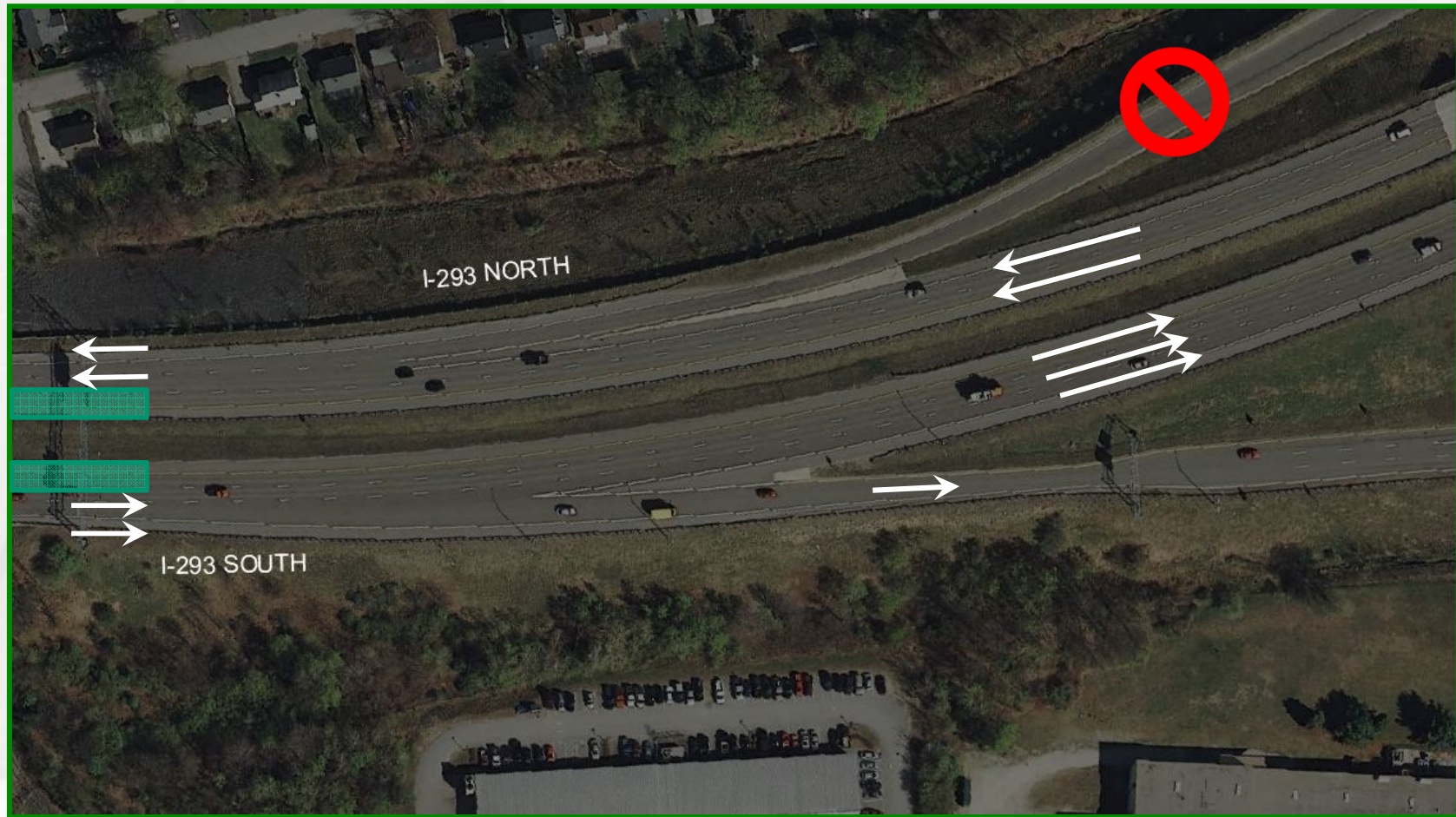
Phase 1 – West Side Ramps



Bridge Preservation of I-293 and NH 101 bridges over Merrimack River

Bedford-Manchester 40731

Phase 1 – Brown Avenue Ramps



Bridge Preservation of I-293 and NH 101 bridges over Merrimack River

Bedford-Manchester 40731

Phase 2 – Work Zone



Bridge Preservation of I-293 and NH 101 bridges over Merrimack River

Bedford-Manchester 40731

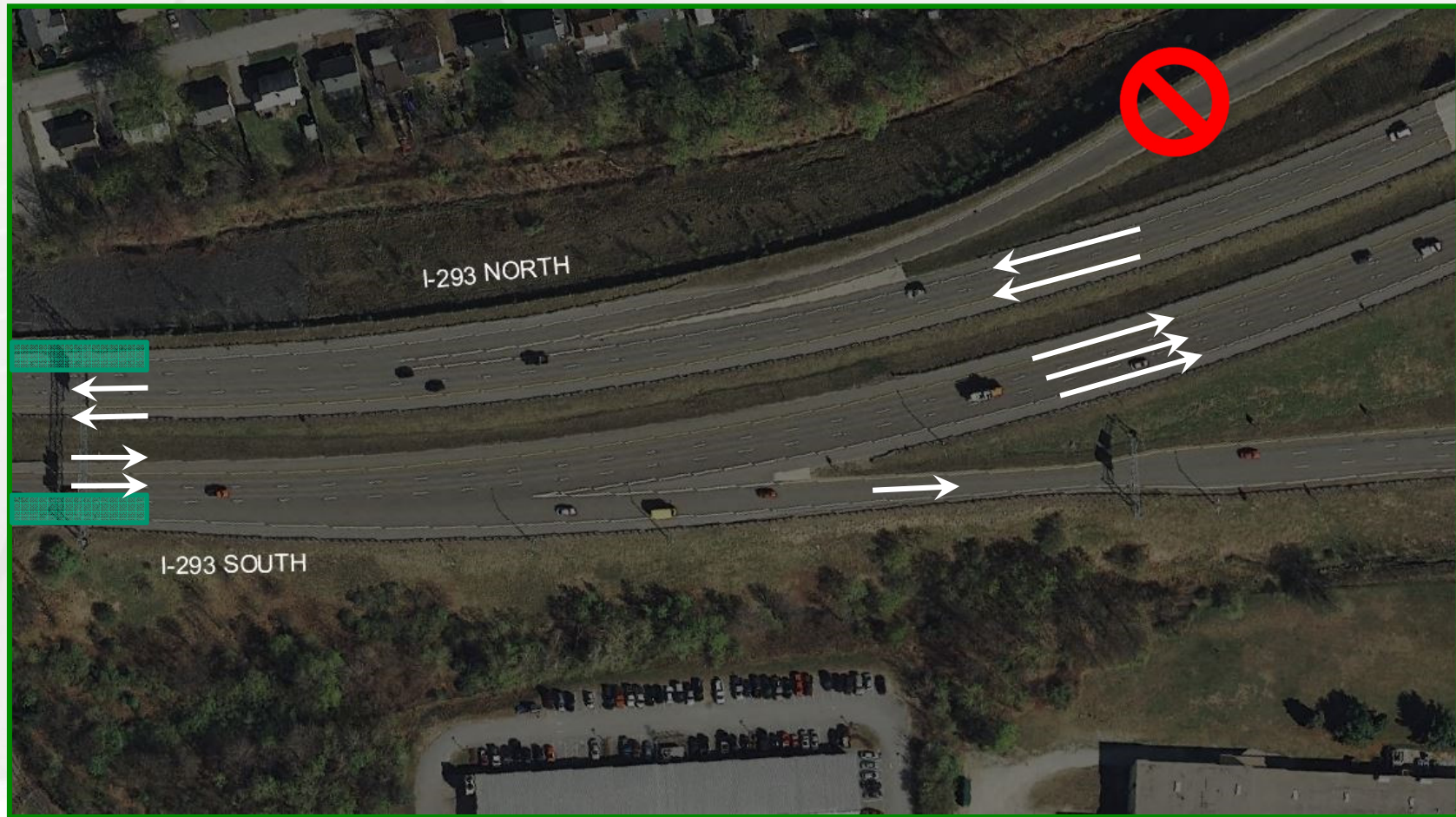
Phase 2 – West Side Ramps



Bridge Preservation of I-293 and NH 101 bridges over Merrimack River

Bedford-Manchester 40731

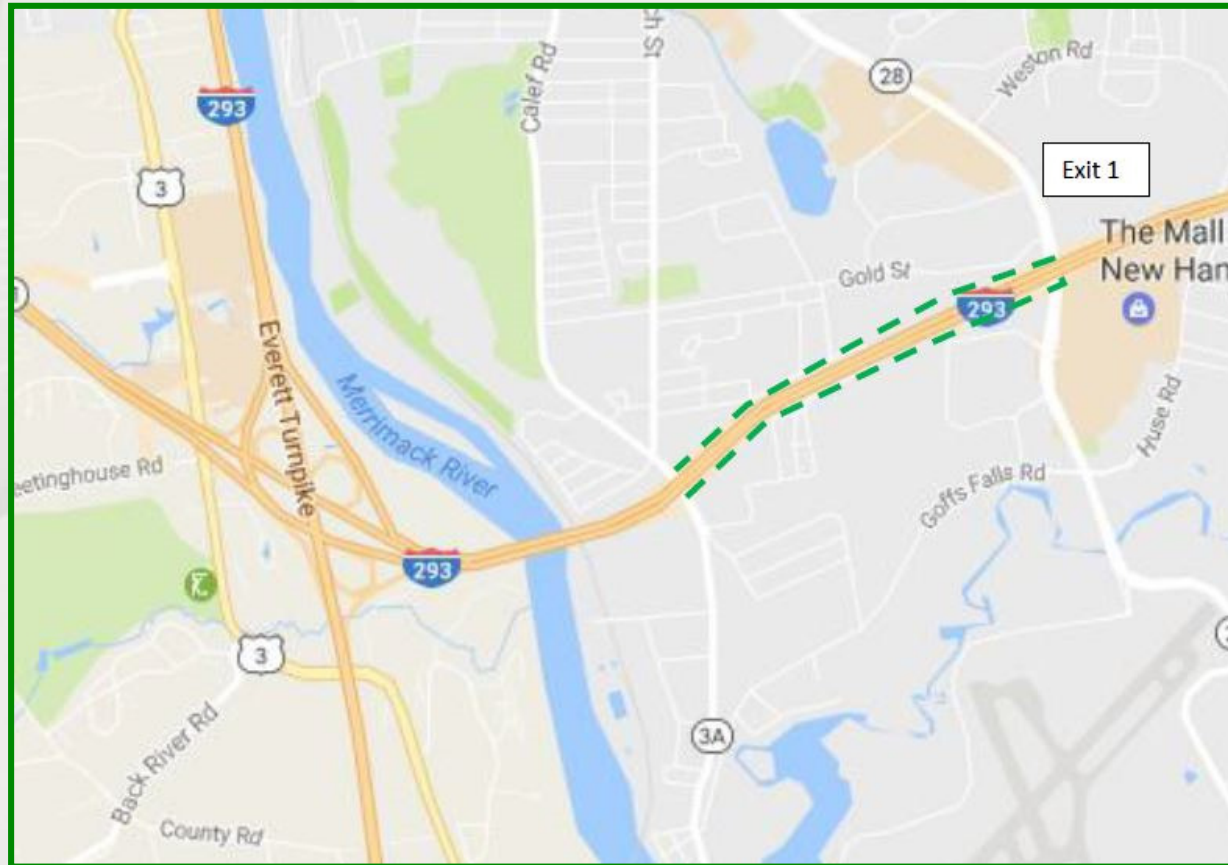
Phase 2 – Brown Avenue Ramps



Bridge Preservation of I-293 and NH 101 bridges over Merrimack River

Bedford-Manchester 40731

Brown Ave Detour



Bridge Preservation of I-293 and NH 101 bridges over Merrimack River

Traffic Mitigation Efforts

- Smart Work Zone technology
 - Traffic monitoring and delay information
- Advanced signing and message boards
- Local user knowledge
 - Alternative routing
 - Waze, Google Maps, etc.
- Field adjustment of timings at Exit 1

Project Schedule

- Advertise for bids – January 2018
- Phase 1 – Spring 2018
 - Traffic shifted right
 - 2 to 2.5 month duration
- Phase 2 – Summer 2018
 - Traffic shifted left
 - 2 to 2.5 month duration
- Completion – Fall 2018

Bridge Preservation of I-293 and NH 101 bridges over Merrimack River

Bedford-Manchester 40731

An aerial photograph of a large multi-lane bridge spanning a wide river. The bridge has several concrete piers supporting it. The surrounding landscape is covered in snow, with bare trees and some evergreens. In the background, a residential area with many houses is visible. A semi-transparent white box with a green border is overlaid on the image, containing the text 'Thank You' in green.

Thank You

Questions?

Bridge Preservation of I-293 and NH 101 bridges over Merrimack River